SERVICE MANUAL

INTEGRATED AMPLIFIER

SANSUI AU-G90X



CAUTION

- 1. Parts identified by the A symbol on the schematic diagram and the parts list are critical for safety. Use only replacement parts that have critical characteristics recommended by the manufacturer.
- 2. Make leakage-current or resistance measurements to determine that exposed parts are acceptably insulated from the supply circuit before returning the appliance to the customer.



SANSUI ELECTRIC CO., LTD.

SPECIFICATIONS

Power output	
Load impedance	
Total harmonic distortion	
	less than 0.003% at or below rated min. RMS power output
Intermodulation distortion (60 Hz: 7 kHz = 4:1 SMPT	
	less than 0.003% at rated
	power output
Frequency response (at 1	
Overall (from CD/AU)	() . DC to 300,000 Hz, +0 dB
***************************************	-3.0 dB
RIAA curve deviation (PF	1000-MM, 20 Hz to 20 kHz)
	. +0.2 dB,0.2 dB
Input sensitivity and imp	
PHONO (MC TRANS-	100 V/5 3 obes
PHONO (MC TRANS-I	. 100 дv/3.3 dilftis HIGH)
(Max. input capabi	lity: 20 mV at 1 kHz, less than
0.01% total harmon	
PHONO (HIGH MC) . PHONO (MM)	
	lity; 300 mV at 1 kHz, less than
0.01% total harmor	
CD/AUX	
TUNER, TAPE PLAY-1,	2 . 150 mV/47 kohms
Output level (1,000 Hz)	. 130 MV/47 KONNS
TAPE REC-1, 2	. 150 mV into 47 kohms
Signal to noise ratio (short	t-circuit, A-network)
PHONO (MC)	
PHONO (MM) CD/AUX	110 dB
TUNER, TAPE PLAY-1,	2
Controls and Filter	
BASS Tone selector	± 10 dB at 50 HZ
TREBLE	
Tone selector	3 kHz, 6 kHz
	-3 dB at 16 Hz (6 dB/oct)
MUTING LOUDNESS	
	+6 dB at 10 kHz
(VOLUME: -30 dB	
Power requirements	
	120/220/240V (50/60 Hz)
For U.S.A. & Canad	
Power consumption	470 watts 580 VA Rated
	700 watts Maximum
Dimensions	
	161 mm (6-3/8") H 431 mm (17") D

<sup>Design and specifications subject to changes without notice for improvements.
Due to local laws and regulations, this unit sold in some areas are not equipped with variable voltage selectors;</sup>

19 kg (41.8 lbs) packed

CAUTION

1. The symbols, UL, CSA, SA, BS, UK, EU, AS and XX (EXPORT) on the parts list and the schematic diagram mean followings respectively.

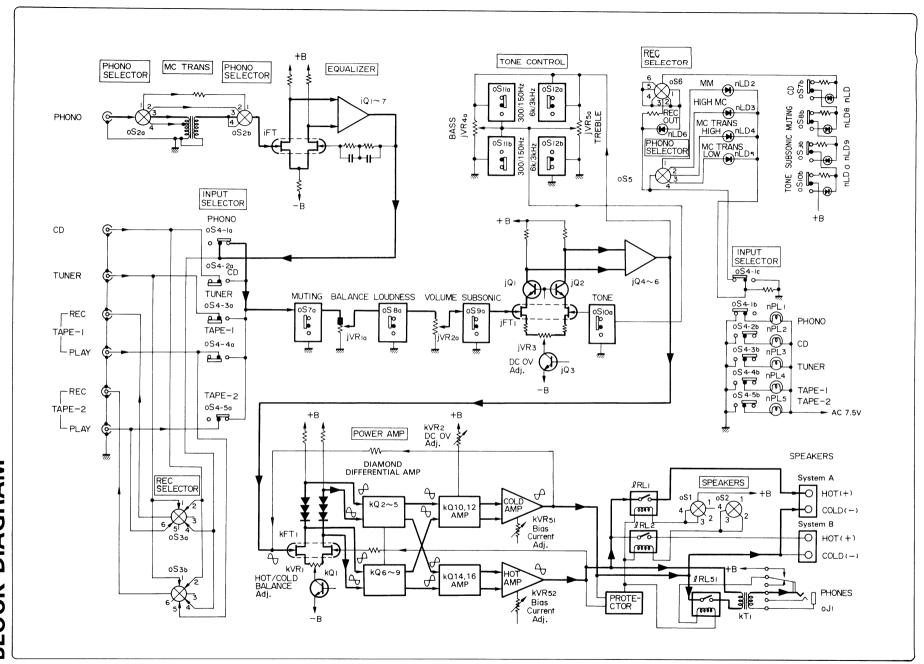
UL	. Manufactured for U.S.A market.
	(Underwriters Laboratories approved model.)
CSA	. Manufactured for Canadian market.
SA	. Manufactured for South African market.
BS, UK	. Manufactured for United Kingdom market.
EU	. Manufactured for European market.
AS	. Manufactured for Australian market.
XX (EXPORT)	. Standard Version.
NON MARK	

- Some printed circuit boards are not supplied as the assembled.
 To separate these in this service manual, the stock No's are not indicated at the ends of the board names. However, the individual parts on the circuit boards are provided by orders.
- 3. Since some of capacitors and resistors are omitted from parts lists in this service manual, refer to the Common Parts List for capacitors & resistors, which was issued on February 1983.
- 4. Abbreviations in this service manual are as follows.

- ∙Abbı	reviations List ————	
C.R.	: Carbon Resistor	E.B.L. : Low Leak Bi-Polar
S.R.	: Solid Resistor	Electrolytic Capacitor
Ce.R.	: Cement Resistor	Ta.C. : Tantalum Capacitor
M.R.	: Metal Film Resistor	F.C. : Film Capacitor
F.R.	: Fusing Resistor	M.P. : Metalized Paper Capacitor
N.I.R.	: Non-Inflammable Resistor	P.C. : Polystyrene Capacitor
A.R.	: Array Resistor	G.C. : Gimmic Capacitor
C.C.	: Ceramic Capacitor	A.C. : Array Capacitor
C.T.	: Ceramic Capacitor,	V.R. : Variable Resistor
	Temperature Compensation	S.V.R.: Semi Variable Resistor
E.C.	: Electrolytic Capacitor	SW. : Switch
E.L.	: Low Leak Electrolytic	Chip R.: Chip Resistor
	Capacitor	Chip C.: Chip Capacitor
E.B.	: Bi-Polar Electrolytic	
	Capacitor	

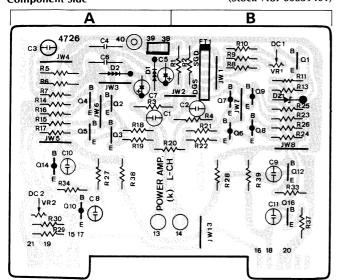
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2. PARTS LOCATION & PARTS LIST

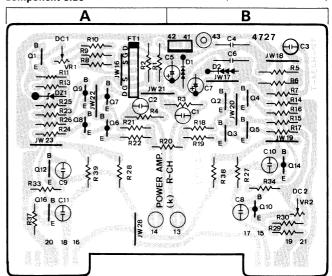
2-1. F-4726 Driver Amp. (L-ch) Circuit Board (Stock No. 00839401) **Component Side**



Part	S	Lis	st

Parts List		
Parts No.	Stock No.	Description
Transistor		
kQ1	46581701	2SC1845
kQ2	46581701	2SC1845
kQ3	46581701	2SC1845
kQ4	46581701	2SC1845
kQ5	46581701	2SC1845
kQ6	46581601	2SA992
kQ7	46581601	2SA992
kQ8	46581601	2SA992
kQ9	46581601	2SA992
kQ10	46728201	2SA1145
kQ12	46728301	2SC2705
kQ14	46728201	2SA1145
kQ16	46728301	2SC2705
•FET		
kFT1	07110000	μPA68H-L
	or 07110001	μPA68H-M
kD1	03401700	Varistor MV103
kD2	03401700	Varistor MV103
kR1	46006400	4.3k Ω 1/2W C.R.
kR2	46006500	$4.7k\Omega$ 1/2W C.R.
kR3	48018400	150k Ω 1/4W C.R.
kR4	48018400	150kΩ 1/4W C.R.
⚠ kR11	08924600	$2.7k\Omega$ 1/2W N.I.R.
⚠ kR29	00132500	180 Ω 1/2W N.I.R.
	00133600	270 Ω 1/2W N.I.R.
⚠ kR33	08923000	120 Ω 1/2W N.I.R.
⚠ kR34	08923000	120 Ω 1/2W N.I.R.
⚠ kR37	08923000	120 Ω 1/2W N.I.R.
kC3	46917800	1500pF 125V P.C.
kVR1	10335700	100Ω(B) S.V.R., HOT/COLD DC
kVR2	10336100	Balance Adj. 470 Ω (B) S.V.R., DC VO Adj.

2-2. F-4727 Driver Amp. (R-ch) Circuit Board (Stock No. 00839501) **Component Side**



Parts List

Parts No.	Stock No.	Description
•Transistor		
kQ1	46581701	2SC1845
kQ2	46581701	2SC1845
kQ3	46581701	2SC1845
kQ4	46581701	2SC1845
kQ5	46581701	2SC1845
kQ6	46581601	2SA992
kQ7	46581601	2SA992
kQ8	46581601	2SA992
kQ9	46581601	2SA992
kQ10	46728201	2SA1145
kQ12	46728301	2SC2705
kQ14	46728201	2SA1145
kQ16	46728301	2SC2705
•FET		
kFT1	07110000	μPA68H-L
	or 07110001	μPA68H-M
1.01	00404700	
kD1	03401700	Varistor MV103
kD2	03401700	Varistor MV103
kR1	46006400	4.3k Ω 1/2W C.R.
kR2	46006500	4.7 k Ω $1/2$ W C.R.
kR3	48018400	150kΩ 1/4W C.R.
kR4	48018400	150kΩ 1/4W C.R.
⚠ kR11	08924600	2.7 k Ω $1/2$ W N.I.R.
⚠ kR29	00132500	180 Ω 1/2W N.I.R.
⚠ kR30	00133600	270 Ω 1/2W N.I.R.
Å kR33	08923000	120 Ω 1/2W N.I.R.
⚠ kR34	08923000	120 Ω 1/2W N.I.R.
⚠ kR37	08923000	120 Ω 1/2W N.I.R.
kC3	46917800	1500pF 125V P.C.
kVR1	10335700	100Ω(B) S.V.R., HOT/COLD DC
kVR2	10336100	Balance Adj. 470 Ω (B) S.V.R., DC VO Adj.

2-3. F-4268 Protector (L-ch) Circuit Board

(Stock No. 00816701)

Component Side

(Stock N

PROTECTOR (2) L-CH

PROTECTOR (2) L-CH

RB 15 N

Parts List

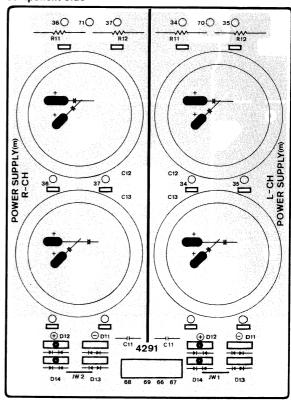
Parts No.	Stock No.	Description	
Transistor			
IQ1	46367101	2SC2603	
IQ2	46367001	2SA1115	
IQ3	46367101	2SC2603	
IQ4	46367001	2SA1115	
IQ5	46367001	2SA1115	
106	46367101	2SC2603	
IQ7	46367001	2SA1115	
IQ8	46367101	2SC2603	
IQ9	46367101	2SC2603	
IQ10	46367001	2SA1115	
Diode			
ID1	03117600	1S2473T77	
	or 46086000	1S1588TP-3	
IC6	46283300	0.022μF 50V F.C.	

2-4. F-4269 Protector (L-ch) Circuit Board

Parts List

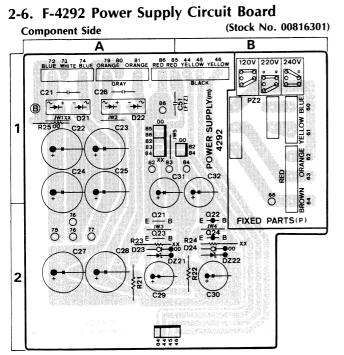
Parts No.	Stock No.	Description	
• Transistor			
IQ1	46367101	2SC2603	
IQ2	46367001	2SA1115	
IQ3	46367101	2SC2603	
IQ4	46367001	2SA1115	
IQ5	46367001	2SA1115	
106	46367101	2SC2603	
IQ7	46367001	2SA1115	
IQ8	46367101	2SC2603	
IQ9	46367101	2SC2603	
IQ10	46367001	2SA1115	
Diode			
ID1	03117600	1S2473T77	
	or 46086000	1S1588TP-3	
IC6	46283300	0.022μF 50V F.C.	

2-5. F-4291 Power Supply Circuit Board



Parts List

Turts List			
Parts No.	Stock No.	Description	
• Diode	46731400 46731500	CTP-21R CTP-21S	
⚠ mR11 ⚠ mR12	00184500 00184500	6.8kΩ 1W N.I.R. 6.8kΩ 1W N.I.R.	
mC11 mC12 mC13 mC33	07287400 46729200 46729200 46078400	0.01μF 630V F.C. 10000μF 80V E.L. 10000μF 80V E.L. 0.47μF 200V F.C.	



Parts	Li	st
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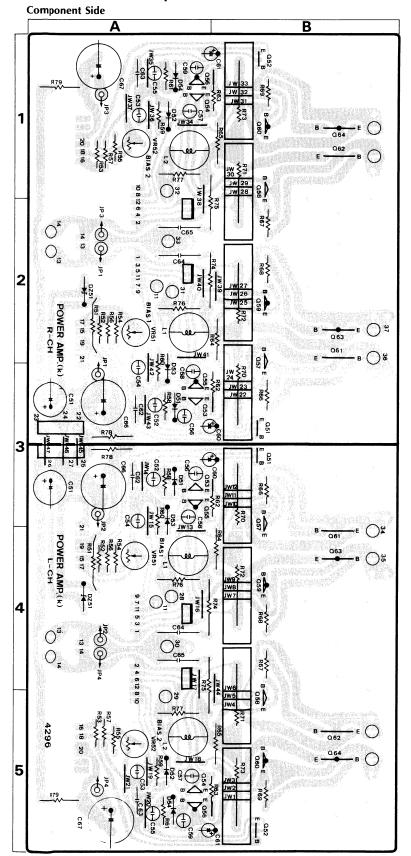
Parts List		
Parts No.	Stock No.	Description
Transistor		
⚠ mQ21	03083901	2SD313AL
<u>^</u>	or 46546701	2SD880
<u>^</u> mQ22	48063301	2SB507
$\stackrel{oldsymbol{\Lambda}}{oldsymbol{\Lambda}}$	or 48064601 or 48064701	2SB825 2SB826
mQ23	03067401	2SC1845
mQ24	03010901	2SA992
111024	03010301	20/1002
• Diode		
♠ mD21	07193300	UB-152LFF
∆ mD22	07193300	UB-152LFF
mD23	46445600	Current RE. Diode 10YD4.5
mD24	46445600	Current RE. Diode 10YD4.5
•Zener Diod	e	
mDZ21	46106500	05Z30-Z
mDZ22	46106500	05Z30-Z
∕1 mR21	08922300	33 Ω 1/2W N.I.R.
⚠ mR22	08922300	33Ω 1/2W N.I.R.
riangle mR25	08921700	10 Ω 1/2W N.I.R.
mC21	07287400	0.01μF 630V F.C.
mC22	46628500	470μF 50V E.C.
mC23	46628500	470μF 50V E.C.
mC24	46628500	470μF 50V E.C.
mC25	46628500	470μF 50V E.C.
mC26	07287400	0.01μF 630V F.C.
mC27	46628500	470μF 50V E.C.
mC28	46628500	470μF 50V E.C.
mC29	46628100	100µF 50V E.C.
mC30 mC31	46628100 46628100	100μF 50V E.C. 100μF 50V E.C.
mC32	46628100	100μF 50V E.C. 100μF 50V E.C.
111002	70020100	100pm 00 v E.O.

2-7. F-4505 Equalizer Amp. Circuit Board (Stock No. 00816101)

Parts List

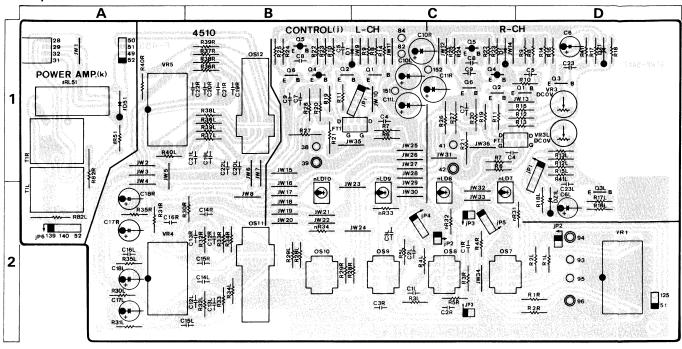
Parts No.	Stock No.	Description
Transistor		
iQ1	46947401	2SC2459
iQ2	46947401	2SC2459
iQ3	03010901	2SA992
iQ4	03010901	2SA992
iQ5	03067401	2SC1845
iQ6	46728301	2SC2705
iQ7	46728201	2SA1145
•FET		
iFT1	46723601	2SK389-BL
	or 46723602	2SK389-V
• Diode		
iD1	03117600	1S2473T77
iD2	03117600	1S2473T77
iR8	08924800	3.9k Ω 1/2W N.I.R.
:D4.7	40000100	5010 1/2\A/ C B
iR17	46009100	56k Ω 1/2W C.R.
iR18	46005300	
iR19	46006500	4.7k Ω 1/2W C.R.
⚠ iR26	08922500	4.7 Ω 1/2W C.R. 4.7 Ω 1/2W C.R.
∆ iR27	08922500	4.7 W 1/200 C.R.
iC7	00414500	0.056μF 100V P.C.
iC8	00413200	0.016μF 100V P.C.

2-8. F-4296 Power Amp. Circuit Board (Stock No. 00816401)



Parts No.	Stock No.	Description
Transistor		
	03067401	2SC1845
⚠ kQ52	03067401	2SC1845
kQ53	07208701	2SC2705
kQ54	07208701	2SC2705
kQ55	07208801	2SA1145
kQ56	07208801	2SA1145
	46728901	2SC3298
kQ57	46728901	2SC3298
kQ58		
kQ59	46728801	2SA1306
kQ60	46728801	2SA1306
∆ kQ61	46729901	2SC3519
⚠ kQ62	46729901	2SC3519
⚠ kQ63	46729801	2SA1386
∆ kQ64	46729801	2SA1386
• Diode		
kD51	03117200	1S2091
kD52	03117200	1S2091
kD53	03117200	1S2091
kD54	03117200	1S2091
• Zanar Diada		
• Zener Diode kDZ51	03171900	RD27FB
∆ kR51	00190800	560 Ω 2W N.I.R.
⚠ kR58	08923600	390 Ω 1/2W N.I.R.
∆ kR59	08923600	390 Ω 1/2W N.I.R.
⚠ kR60	08923600	390 Ω 1/2W N.I.R.
∆ kR61	08923600	390Ω 1/2W N.I.R.
Δ kR62		560 Ω 1/2W N.I.R.
	08923800	
⚠ kR63	08923800	560Ω 1/2W N.I.R.
1 kR64	08923000	120 Ω 1/2W N.I.R.
Д kR65	08923000	120 Ω 1/2W N.I.R.
⊈ kR66	08921300	4.7Ω 1/2W N.I.R.
⊈ kR67	08921300	4.7Ω 1/2W N.I.R.
	08921300	4.7 Ω 1/2W N.I.R.
🕰 kR69	08921300	4.7 Ω 1/2W N.I.R.
🕰 kR70	46740000	0.27Ω 7W Ce.R.
∆ kR71	46740000	0.27 Ω 7W Ce.R.
⚠ kR72	46740000	0.27Ω 7W Ce.R.
∆ kR73	46740000	0.27 Ω 7W Ce.R.
∆ kR74	00185500	10 Ω 2W N.I.R.
∆ kR75	00185500	10 Ω 2W N.I.R.
∆ kR76	00183600	4.7 Ω 1W N.I.R.
∆ kR77	00183600	4.7 Ω 1W N.I.R.
⚠ kR78	08922300	33Ω 1/2W N.I.R.
⚠ kR79	08922300	33Ω 1/2W N.I.R.
LC51	46620100	100 501/ 5.0
kC51	46628100	100μF 50V E.C.
kC64	00411600	0.047μF 400V P.C.
kC65	00411600	0.047μF 400V P.C.
kC66	46628500	470μF 50V E.C.
kC67	46628500	470μF 50V E.C.
kL1	46851800	Inductor 0.5μH
kL2	46851800	Inductor 0.5µH
kVR51	10341800	330 Ω (B)S.V.R.,Bias Adj
kVR52	10341800	330 Ω (B)S.V.R., Bias Adj

2-9. F-4510 Control Amp. Circuit Board (Stock No. 00817101)

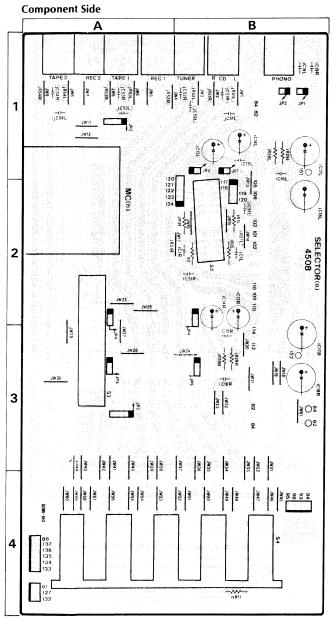


Parts 1	List
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Parts List			
Parts No.	Stock No.	Description	Parts No.
• Transistor			jC20
jQ1	46581701	2SC1845	jC21
jQ2	46581701	2SC1845	jC22
jQ3	46581701	2SC1845	•
jQ4	46581601	2SA992	jVR1
jQ5	46581601	2SA992	jVR3
jQ6	46581701	2SC1845	jVR4
. ===			jVR5
• FET iFT1	46723600	2SK389-GR	kT1
J, , ,	or 46723601	2SK389-BL	KI I
	or 46723602	2SK389-V	<u></u> ∱ kR82
Diode			Diode
jD1	03117600	1S2473T77	ID51
•Zener Dioc	de		∕ <u>1</u> \ IR51
jDZ1	46114200	05Z13-Y	
			IRL51
jR20	46008100	22k Ω 1/2W C.R.	
jR21	46006200	$3.6k\Omega$ 1/2W C.R.	
	08923600	390 Ω 1/2W N.I.R.	•LED
♣ jR25	08923600	390 Ω 1/2W N.I.R.	nLD7
jR27	46003300	220 Ω 1/2W C.R.	nLD8
jC2	46697200	0.068µF 50V F.C.	nLD9 nLD10
jC3	46696700	0.043μF 50V F.C.	TIED TO
iC12	46695600	0.015μF 50V F.C.	oS7
jC13	46697400	0.082μF 50V F.C.	o\$8
iC14	46695600	0.015μF 50V F.C.	oS9
jC15	46697400	0.082μF 50V F.C.	oS10
iC16	46283700	0.047μF 50V F.C.	oS11
jC19	46693000	1200pF 50V F.C.	oS12
,	. 5 5 6 6 6 6	.200p. 001 1.0.	0012

Parts No.	Stock No.	Description
jC20 jC21 jC22	46694800 46693200 46695000	6800pF 50V F.C. 1500pF 50V F.C. 8200pF 50V F.C.
jVR1 jVR3 jVR4 jVR5	46731800 46738100 46731910 46731910	250kΩ V.R., BALANCE 100Ω S.V.R., DC 0V Adj. 100kΩ V.R., BASS 100kΩ V.R., TREBLE
kT1	46841800	Output Transformer, PHONES
<u></u> & kR82	08922300	33Ω 1/2W N.I.R.
• Diode ID51	03117600	1S2473T77
∆ IR51	08921700	10 Ω 1/2W N.I.R.
IRL51	11504300 or 11504301	Relay, PHONES Relay, PHONES
•LED nLD7 nLD8 nLD9 nLD10	48126300 48126300 48126300 48126300	SEL2210S SEL2210S SEL2210S SEL2210S
oS7 oS8 oS9 oS10 oS11 oS12	46736800 46736800 46736800 46736800 46730600 46730600	Push SW., MUTING Push SW., LOUDNESS Push SW., SUBSOUIC Push SW., TONE Push SW., BASS Push SW., TREBL

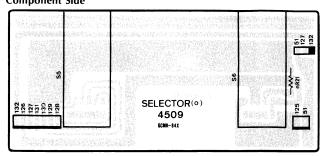
2-10. F-4508 Input Selector Circuit Board



Parts List

i aits List		
Parts No.	Stock No.	Description
hT1	46940000	MC Head Transformer
iC15 iC16	46281300 46699900	0.047μF 50V F.C. 3900pF 50V F.C.
oS2 oS3 oS4	46939900 07200200 46726800	Slide SW., PHONO SELECTOR Slide SW., REC SELECTOR Push SW., INPUT SELECTOR
oZ3 oZ4	46684800 46685300	2P Terminal Board, DC 6P Terminal Board, TAPE-1 PLAY, TAPE-2
oZ5	48002700	4P Terminal Board, TUNER, TAPE-1 REC
oZ6	46684900	2P Terminal Board, PHONO

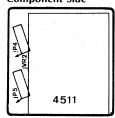
2-11. F-4509 Phono & REC Selector Circuit Board **Component Side**



Parts List		
Parts No.	Stock No.	Description
oS5 oS6	46726510 46726610	Rotary SW., PHONO Indicator Rotary SW., REC Indicator

2-12. F-4511 VOLUME Control Board

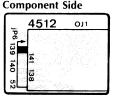
Component Side



Parts List			
Parts No.	Stock No.	Description	
jVR2	46737100	100kΩ V.R., VOLUME	

2-13. F-4512 PHONES Jack Board

Component Side

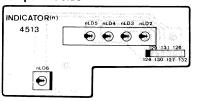


Parts List

Parts No.	Stock No.	Description	
oJ1	46078200	Jack, PHONES	

2-14. F-4513 Input Indicator LED Board

Component Side



Parts List

Parts No.	Stock No.	Description	
nLD2	07246200	SEL1710K	
nLD3	07246200	SEL1710K	
nLD4	07246200	SEL1710K	
nLD5	07246200	SEL1710K	
nLD6	03193700	SEL1110S	

2-15. F-4553 Protector Circuit Board

(Stock No. 00817601) **Component Side** В FIXED PARTS(p)

Parts List		
Parts No.	Stock No.	Description
 ♣ kR39 ♠ kR40 ♠ kR80 ♠ kR81 	08921700 08921700 00185500 00185500	10 Ω 1/2W N.I.R. 10 Ω 1/2W N.I.R. 10 Ω 2W N.I.R. 10 Ω 2W N.I.R.
kC68 kC69	46615100 46615100	0.047μF 50V P.C. 0.047μF 50V P.C.
•Transistor IQ31 IQ32	07194801 07194801	2SC1815 2SC1815
•IC IIC31	46207600	TA7317P
• Diode	46463900 46463700 03117700 03117700 03117700 03111800 or 07176400	MC921 MC911 10E-2 10E-2 10E-2 1S1588 1S2473HS
∆ IR41	00180800	1.8k 1W N.I.R.
IC31 IC32	00304400 00304400	100μF 16V E.B. 100μF 16V E.B.
IRL1 IRL2	46446400 46446400	Relay JC24V (Protector) Relay JC24V (Protector)
•Transistor ⚠ mQ1 mQ2	03086101 03067401	2SD357 2SC1845
•Diode mD1 ∆ mD2	03117700 03117700	10E-2 10E-2
•Zener Diode mDZ1	46105800	05Z24-Y
mR1 mR2	08922300 08924100	33Ω 1/2W N.I.R. 1kΩ 1/2W N.I.R.
⊈ nR1	00180800	1.8k Ω 1W N.I.R.
74		

oZ1

46739500

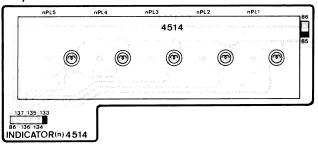
Terminal Board, SPEAKERS

Parts List < F-4553>

Parts No.	Stock No.	Description	
• Diode pD1	03117700	10E-2	
∆ pR1	46739900	3.9 Ω 10W Ce.R.	
<u>↑</u> pF1	07189100 or 07189500	Fuse 5.0A 250V Fuse 10A 250V	
Δ pRL1	46222200	Relay, POWER	

2-16. F-4514 Input Indicator Lamp Board

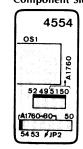
Component Side



Parts List

Parts No.	Stock No.	Description	
nPL1 nPL2 nPL3 nPL4 nPL5	46730000 46730000 46730000 46730000 46730000	Pilot Lamp 8V 0.1A Pilot Lamp 8V 0.1A Pilot Lamp 8V 0.1A Pilot Lamp 8V 0.1A Pilot Lamp 8V 0.1A	

2-17. F-4554 SPEAKERS Selector Board **Component Side**



Parts List

Parts No.	Stock No.	Description	
oS1	46730700	Rotary SW., SPEAKERS	

2-18. F-4555 PROTECTOR LED Board



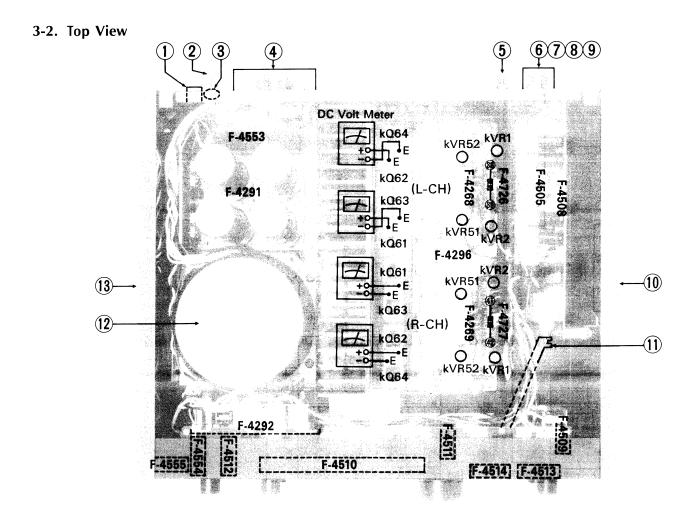
Parts	List
I aits	LIST

Parts No.	Stock No.	Description	
•LED			
nLD1	03193700	SEL1110S	

3. OTHER PARTS

3-1. Front View





Parts List < Front View>

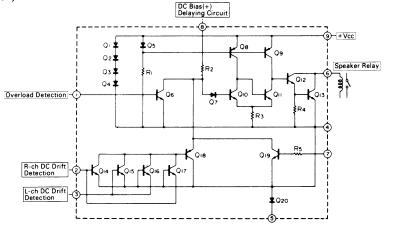
Parts No.	Stock No.	Description		
1	47316400	Knob, SPEAKERS, TREBLE, BASS, PHONO SELECTOR, REC SELECTOR		
2	46939600	Rotary SW., SPEAKERS		
3	46731910	100k Ω V.R., TREBLE, BASS		
4	47301320	Knob, 300Hz, 150Hz, 6kHz, 3kHz		
5	46730600	Push SW., 300Hz, 150kHz, 6kHz, 3kHz		
6	47616500	Front Panel Ass'y		
6-1	47334110	Knob Ass'y		
7	47616400	Knob, VOLUME		
8	46737100	100kΩ V.R., VOLUME		
9	46726800	Push SW., INPUT SELECTOR		
10	47332310	Bonnet		
11	46726510	Rotary SW., PHONO Indicator		
12	46939900	Slide SW., PHONO SELECTOR		
13	46726610	Rotary SW., REC Indicator		
14	07200200	Slide SW., REC SELECTOR		
15	47316200	Knob, BALANCE		
16	46731800	250kΩ V.R., BALANCE		
17	47302320	Knob, TONE, SUBSONIC, LOUD- NESS, MUTTING		
18	46736800	Push SW., TONE, SUBSONIC LOUDNESS, MUTING		
19	46078200	Jack, PHONES		
20	47302110	Knob, POWER		
Æ. 21	46612900	Push SW., POWER		
22	47338400	Leg Ass'y		

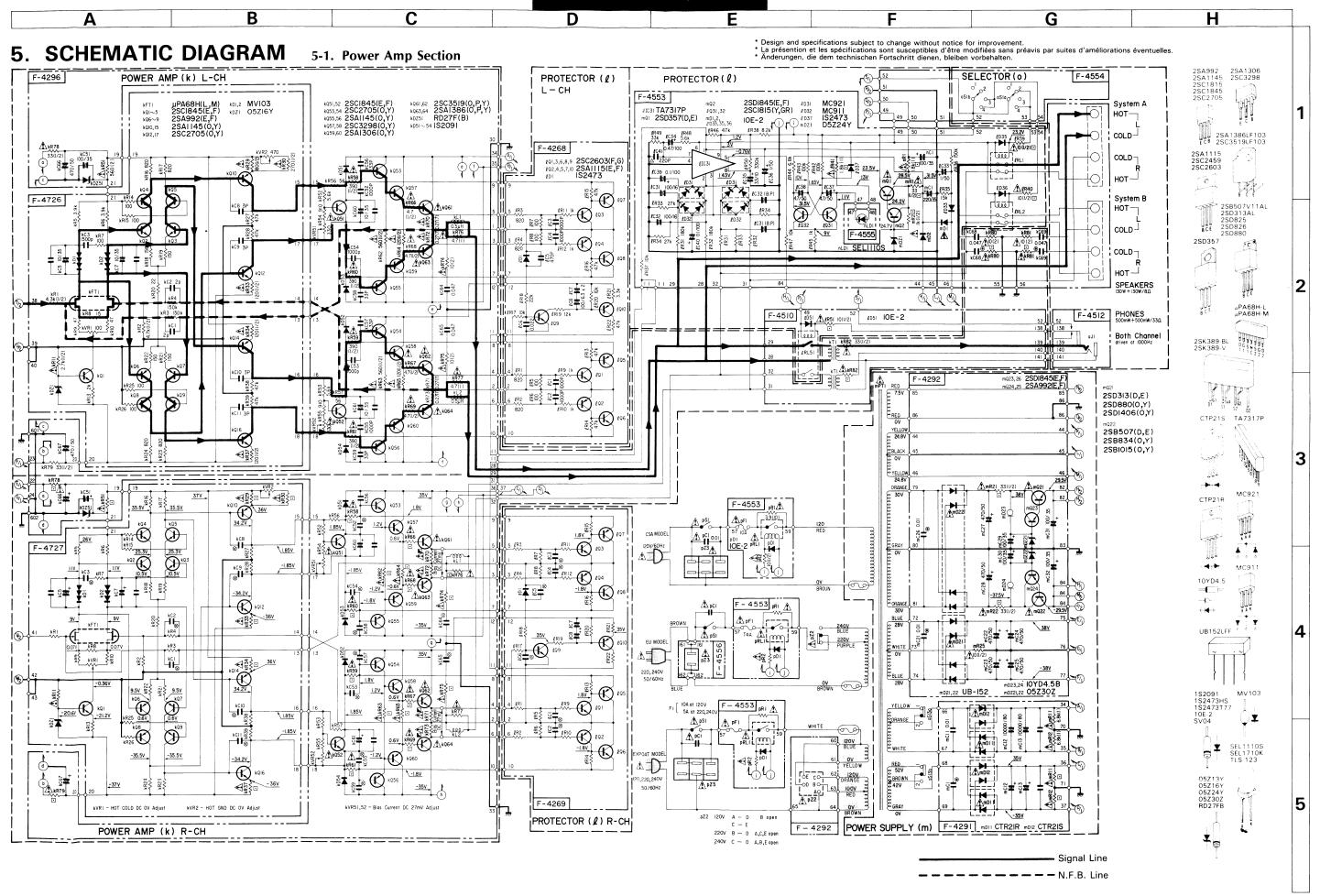
Parts List <Top View>

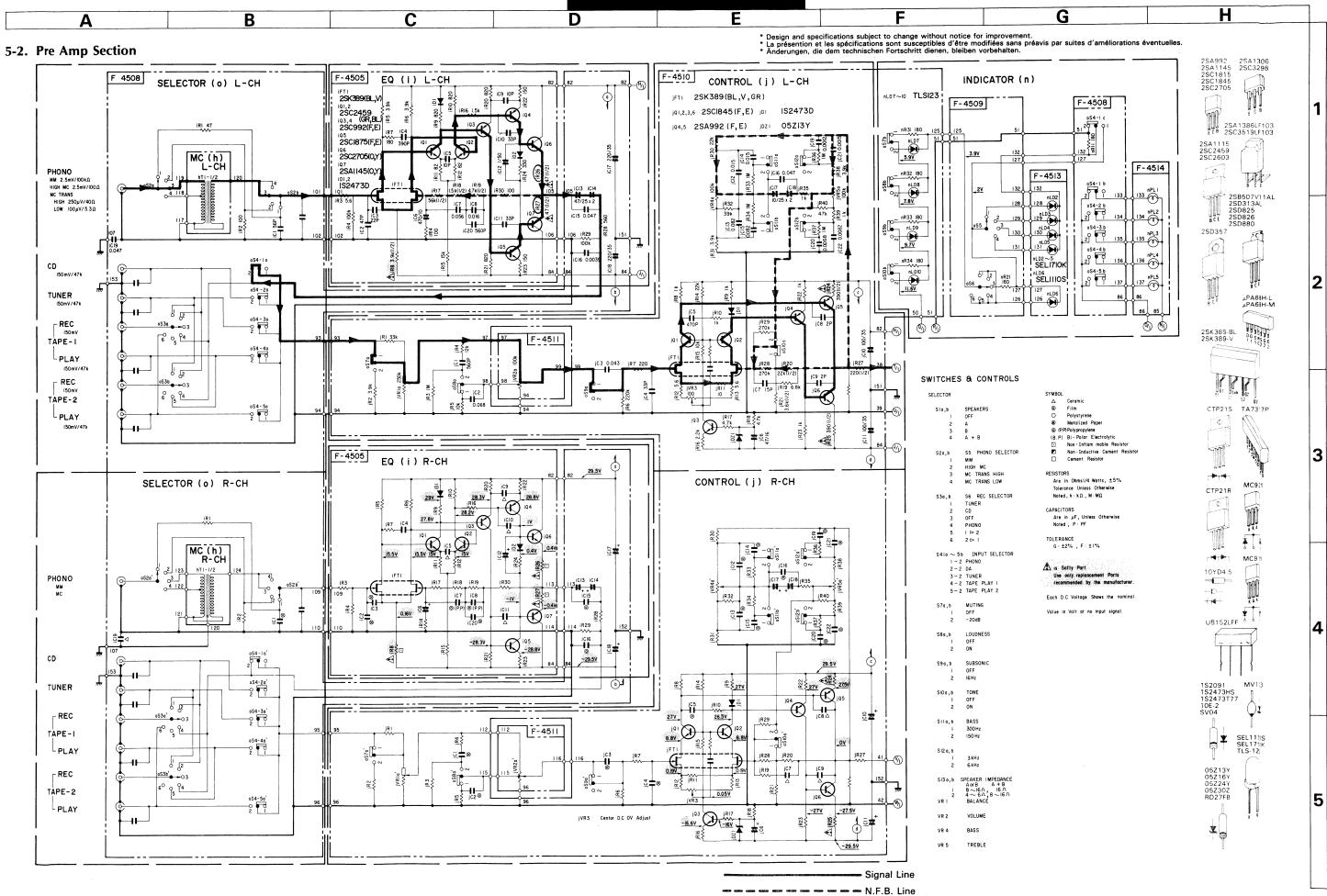
Parts No.	Stock No.	Description		
<u> </u>	46730400	AC OUTLET		
<u> </u>	38004700	Power Supply Cord (XX)		
\triangle	46321000	Power Supply Cord (CSA)		
Δ	46128900	Power Supply Cord (EU)		
3	39104900	Strain Relief (CSA, EU)		
	39106000	Strain Relief (XX)		
4	46739500	8P Terminal, SPEKAERS		
5	22301900	Ground Terminal		
6	46684900	2P Terminal, PHONO		
7 46684800		2P Terminal, CD		
8 48002700		4P Terminal, TUNER, TAPE-1 REC		
9	46685300	6P Terminal, TAPE-1 PLAY, TAPE-2		
10	47331500	Side Panel Ass'y (R)		
11	47301210	Joint Shaft, INPUT SELECTOR		
1 12	15017701	Power Transformer (XX)		
\triangle	15017703	Power Transformer (CSA)		
<u>↑</u>	15017705	Power Transformer (EU)		
13	47331600	Side Panel Ass'y (L)		

4. INTERIOR BLOCK DIAGRAM OF IC

•TA7317P (Protector)







6. ADJUSTMENT

 	Master Volume	
3.	Test Equipment	DC Volt Meter

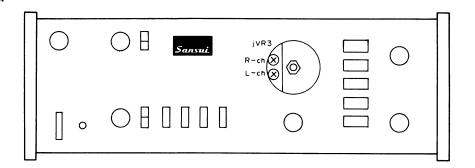
- minutes after the power is switched ON.
- 5. Before turning ON POWER Switch set kVR51, 52 little counterclockwise.

6-1. F-4510 Flat Amp. Circuit Adjustment (Refer to Fig. 6-1)

Note: For this adjustment, removal of the front panel is required.

STEP	SUBJECT	MESURE OUTPUT	ADJUST	ADJUST FOR	
1	Center DC 0V Adj. <l-ch></l-ch>	DC Voltage between Output Terminals No. 38 and 39 on F-4726.	jVR3 <l-ch> F-4510</l-ch>	DC 0V ± 5mV	
2	Center DC 0V Adj. <r-ch></r-ch>	DC Voltage between Output Terminals No. 41 and 42 on F-4727.	jVR3 < R-ch > F-4510	DC 0V ± 5mV	

Fig. 6-1 Front View



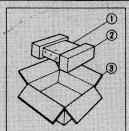
6-2. Power Amp. Circuit Adjustment (Refer to Top View on Page 8)

STEP	SUBJECT	MESURE OUTPUT	ADJUST	ADJUST FOR
1	Hot/Cold Balance Adj. <l-ch></l-ch>	DC Voltage between Speaker Terminals HOT and COLD. <l-ch></l-ch>	kVR1 F-4726	DC 0V ±5mV
2	Hot/Cold Balance Adj. <r-ch></r-ch>	DC Voltage between Speaker Terminals HOT and COLD. < R-ch >	kVR1 F-4727	DC 0V ±5mV
3	Center DC 0V Adj. <l-ch></l-ch>	DC Voltage between Speaker Terminal HOT and GND. <l-ch></l-ch>	kVR2 F-4726	DC 0V ±5mV
4	Center DC 0V Adj. <r-ch></r-ch>	DC Voltage between Speaker Terminal HOT and GND. < R-ch >	kVR2 F-4727	DC 0V ±5mV
5	Bias Current Adj. <hot amp.="" l-ch="" of="" side=""></hot>	DC Voltage between Emitters of power transistors (kQ62 & kQ64). <l-ch></l-ch>	kVR52 <l-ch> F-4296</l-ch>	DC 27mV ± 2mV
6	Bias Current Adj. <cold amp.="" l-ch="" of="" side=""></cold>	DC Voltage between Emitters of power transistors (kQ61 & kQ63). <l-ch></l-ch>	kVR51 <l-ch> F-4296</l-ch>	DC 27mV ± 2mV
7	Bias Current Adj. <hot amp.="" of="" r-ch="" side=""></hot>	DC Voltage between Emitters of power transistors (kQ62 & kQ64). < R-ch >	kVR52 < R-ch> F-4296	DC 27mV ± 2mV
8	Bias Current Adj. <cold amp.="" of="" r-ch="" side=""></cold>	DC Voltage between Emitters of power transistors (kQ61 & kQ63). <r-ch></r-ch>	kVR51 < R-ch> F-4296	DC 27mV±2mV

Note: Repeat procedures as stated in subject in Step 1~4.

7. PACKING LIST

Parts No.	Stock No.	Description
1	91167720	Vinyl Bag
2	47332810	Styrofoam Packing
3	47627600	Carton Case



8. ACCESSORY LIST

The second	Stock	No. [Description		
	46961	000	Operating In	struction	



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